

**DRAFT ENVIRONMENTAL IMPACT REPORT
GRAYSON REPOWERING PROJECT**

Appendix I Noise Technical Report
September 15, 2017

Appendix I NOISE TECHNICAL REPORT

2-HR AMBIENT NOISE MEASUREMENT DATA SHEET

Project Name:	Grayson Power Plant
Project Number:	2057123300
Noise Meter Make and Type:	Bruell & Kjaer Model 2250
Microphone:	Bruel & Kjaer 1/2" Free-field Microphone
Acoustical Calibrator:	Bruel & Kjaer Model 4231
Date of Measurement:	03/23/2017
Stantec Technician:	Colleen Hulbert

Location and Description of Measurement (Receptor Location):

Receptor 1, on grassy verge between Kellogg Ave and sidewalk.

Approximate Distance from Receptor:

Time Measurement Began:

1120

Time Measurement Ended:

1320

Data Stored as Recorded #:

Project 001 *R1-day*

Leq:		dBA
MaxP:		dBC
MinL:		dBA
MaxL:		dBA
SEL:		dBA
LVN:		dBA

L90:		dBA
L75:		dBA
L50:		dBA
L25:		dBA
L10:		dBA

Description of meteorological conditions (weather, wind, temperature, etc.):

64°F, sunny and breezy.

Description/sources of ambient noise:

- Wind in surrounding trees
- Helicopter in distance at approximately 1121; 1244; 1301
- Train at approximately 1126 (no horn); 1248; 1258
- Train at approximately 1129 (with distant horn); 1134; 1140; 1214; 1219
- Quiet conversation with curious pedestrian at 1143; 1207;
- Screechy car start at 1155
- Girl singing near meter at 1202

- Bed of truck loaded with newspaper near meter between 1202 and 1225.
- Street Sweeper at 1225; 1228; 1243; 1246; 1248; 1249
- Car horn @ 1254; 1300
- Skateboarder @ 1257; 1301
- Normal automotive traffic

15-MIN AMBIENT NOISE MEASUREMENT DATA SHEET

Project Name:	Grayson Power Plant
Project Number:	2057123300
Noise Meter Make and Type:	Bruell & Kjaer Model 2250
Microphone:	Bruel & Kjaer 1/2" Free-field Microphone
Acoustical Calibrator:	Bruel & Kjaer Model 4231
Date of Measurement:	3/23/17
Stantec Technician:	K. Posekany

Location and Description of Measurement (Receptor Location):

Receptor 1: Kellogg Ave.

Approximate Distance from Receptor:

Time Measurement Began:

2050

Time Measurement Ended:

2105

Data Stored as Recorded #:

015 RI-eve

Leq:		dBA
MaxP:		dBC
MinL:		dBA
MaxL:		dBA
SEL:		dBA
LVN:		dBA

L90:		dBA
L75:		dBA
L50:		dBA
L25:		dBA
L10:		dBA

Description of meteorological conditions (weather, wind, temperature, etc.):

Dusk; clear; ~60-65°F; No wind

Description/sources of ambient noise:

Traffic; Crickets;

2-HR AMBIENT NOISE MEASUREMENT DATA SHEET

Project Name:	Grayson Power Plant
Project Number:	2057123300
Noise Meter Make and Type:	Bruell & Kjaer Model 2250
Microphone:	Bruel & Kjaer 1/2" Free-field Microphone
Acoustical Calibrator:	Bruel & Kjaer Model 4231
Date of Measurement:	03/24/2017
Stantec Technician:	Colleen Hulbert

Location and Description of Measurement (Receptor Location):

Receptor 1, located on grassy verge between Kellogg Ave. and sidewalk.

Approximate Distance from Receptor:

Time Measurement Began:

0000

Time Measurement Ended:

0200

Data Stored as Recorded #:

Project 003 *RI-night*

Leq:		dBA
MaxP:		dBC
MinL:		dBA
MaxL:		dBA
SEL:		dBA
LVN:		dBA

L90:		dBA
L75:		dBA
L50:		dBA
L25:		dBA
L10:		dBA

Description of meteorological conditions (weather, wind, temperature, etc.):

54°F, clear.

Description/sources of ambient noise:

- Crickets
- Traffic along San Fernando Road
- Train passing (with distant horn) @ 0025; 0115; 0145
- Police sirens @ 0105; 0155
- Car alarm @ 0135

2-HR AMBIENT NOISE MEASUREMENT DATA SHEET

Project Name:	Grayson Power Plant
Project Number:	2057123300
Noise Meter Make and Type:	Bruell & Kjaer Model 2250
Microphone:	Bruel & Kjaer 1/2" Free-field Microphone
Acoustical Calibrator:	Bruel & Kjaer Model 4231
Date of Measurement:	03/23/2017
Stantec Technician:	Colleen Hulbert

Location and Description of Measurement (Receptor Location):

Receptor 2, on sidewalk between Highland and Arco station near entrance to Alley.

Approximate Distance from Receptor:

Time Measurement Began:

1342

Time Measurement Ended:

1542

Data Stored as Recorded #:

Project 002 R2-day

Leq:		dBA
MaxP:		dB
MinL:		dBA
MaxL:		dBA
SEL:		dBA
LVN:		dBA

L90:		dBA
L75:		dBA
L50:		dBA
L25:		dBA
L10:		dBA

Description of meteorological conditions (weather, wind, temperature, etc.):

72° F, sunny, breezy, clear.

Description/sources of ambient noise:

- | | |
|--|---|
| <ul style="list-style-type: none"> • Traffic along San Fernando and Highland. • Truck 'backup beeping' @ 1351; 1538 • Helicopter in distance @ 1354; 1541 • Arco gas station customers • Police sirens (distant) @ 1404 • Passing train (with distant horn) @ 1411; 1438; 1524; 1530; 1535 • Wind in surrounding trees • Street sweeper @ 1448; 1458; 1503 | <ul style="list-style-type: none"> • Garbage bins moved around meter @ 1502 • Passing train (no horn) @ 1505; 1515; 1531 • Car horn @ 1522; 1530; 1541 |
|--|---|

15-MIN AMBIENT NOISE MEASUREMENT DATA SHEET

Project Name:	Grayson Power Plant
Project Number:	2057123300
Noise Meter Make and Type:	Bruell & Kjaer Model 2250
Microphone:	Bruel & Kjaer 1/2" Free-field Microphone
Acoustical Calibrator:	Bruel & Kjaer Model 4231
Date of Measurement:	3/23/17
Stantec Technician:	K. Posekian

Location and Description of Measurement (Receptor Location):

Receptor 2: Highland; Near Arco gas station

Approximate Distance from Receptor:

Time Measurement Began:

2117

Time Measurement Ended:

2132

Data Stored as Recorded #:

016 R2-eve

Leq:		dBA
MaxP:		dBC
MinL:		dBA
MaxL:		dBA
SEL:		dBA
LVN:		dBA

L90:		dBA
L75:		dBA
L50:		dBA
L25:		dBA
L10:		dBA

Description of meteorological conditions (weather, wind, temperature, etc.):

Dusk; Clear; ~60°F; No wind

Description/sources of ambient noise:

Traffic; Air compressor to inflate tires; Cars starting @ gas station
@ 2123 Train passes w/ horn blowing; @ 2124 Siren in distance
@ 2128 very loud car (Mustang) passes

2-HR AMBIENT NOISE MEASUREMENT DATA SHEET

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Microphone:	Bruel & Kjaer 1/2" Free-field Microphone
Acoustical Calibrator:	Bruel & Kjaer Model 4231
Date of Measurement:	03/24/2017
Stantec Technician:	Colleen Hulbert

Location and Description of Measurement (Receptor Location):

Receptor 2, on sidewalk between Highland and ARCO station near entrance to alley.

Approximate Distance from Receptor:

Time Measurement Began: 0213

Time Measurement Ended: 0413

Data Stored as Recorded #: Project 004 R2-night

Leq:		dBA
MaxP:		dB
MinL:		dBA
MaxL:		dBA
SEL:		dBA
LVN:		dBA

L90:		dBA
L75:		dBA
L50:		dBA
L25:		dBA
L10:		dBA

Description of meteorological conditions (weather, wind, temperature, etc.):

52°F, clear, still.

Description/sources of ambient noise:

<ul style="list-style-type: none"> • Traffic along San Fernando Road • Pumps at ARCO station • Woman yelling for cat @ 0226 	<ul style="list-style-type: none"> • Passing train (no horn) @ 0329 • Sprinklers at the house nearest the meter came on @ 0339 and off @ 0349. Neighboring sprinklers on @ 0349 and continued through the remainder of the reading.
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25-hour Ambient Noise Measurement Data Sheet

Project Name:	Grayson Power Plant
Project Number:	2057123300
Noise Meter Make and Type:	Bruell & Kjaer Model 2270
Microphone:	Bruel & Kjaer 1/2" Free-field Microphone
Acoustical Calibrator:	Bruel & Kjaer Model
Stantec Technician:	L. Butler / R. Brown

Location and Description of Measurement (Receptor Location): <i>meteorological conditions</i>	
Receptor 3, 25 hr In parking lot of medical center	66°F, ^{sunny} winds ~ 9 mph

Start time: 1153 03/23/17

End Time: 1253 03/24/17

Thursday, March 23, 2017	Time:	Description/sources of ambient noise:
	1153	Start meter at Receptor 3, 66°F sunny winds ~ 9 mph
	1202	Truck drives in alley and collects trash
	1214	Passenger train goes by
	1219	Passenger train goes by
	1248	Passenger train goes by
	1256	72°F Sunny Winds ~ 8 mph
	1258	passenger train goes by
	1326	Passenger train goes by
	1332	Siren on street
	1347	72°F Sunny winds ~ 6 mph
	1411	passenger train goes by
	1439	passenger train goes by
	1450	Street Sweeper comes down adjacent street, 73°F sunny winds ~ 5 mph
	1505	Passenger train goes by
	1515	Passenger train goes by
	1524	Passenger train goes by
	1530	Passenger train goes by
	1535	Passenger train goes by
	1543	Passenger train goes by
	1549	Passenger train goes by, 70°F sunny winds ~ 6 mph
	1551	Passenger train goes by
	1604	Passenger train goes by
	1612	Passenger train goes by
	1622	Passenger train goes by

25-hour Ambient Noise Measurement Data Sheet

Project Name:	Grayson Power Plant
Project Number:	2057123300
Noise Meter Make and Type:	Bruell & Kjaer Model 2270
Microphone:	Bruel & Kjaer 1/2" Free-field Microphone
Acoustical Calibrator:	Bruel & Kjaer Model
Stantec Technician:	L. Butler / R. Brown

Location and Description of Measurement (Receptor Location):

Receptor 3 - 25 hr reading

Start time: _____

End Time: _____

	Time:	Description/sources of ambient noise:
CONTINUED	1632	Passenger train goes by
	1643	Passenger train goes by, 70°F sunny ~ 8 mph winds
	1704	Passenger train goes by
	1708	Passenger train goes by
	1724	Passenger train goes by
	1734	Loud motorcycle passes on street
	1754	Passenger train goes by, 67°F sunny, ~ 7 mph winds
	1801	Passenger train goes by
	1805	Passenger train goes by
	1809	Passenger train goes by
CONTINUED	1813	Passenger train goes by
	1855	64°F, no clouds, winds ~ 4 mph, passenger train goes by
	1902	Passenger train goes by
	1929	Passenger train goes by
	1950	Passenger train goes by, 61°F, clear sky, ~ 5 mph winds
	2014	Passenger train goes by
	2020	Passenger train goes by
	2026	Passenger train goes by
	2035	Passenger train goes by
	2048	Passenger train goes by, 57°F, clear sky, no wind
CONTINUED	2123	Passenger train goes by
	2140	Passenger train goes by
	2157	Freight train goes by, 56°F, clear sky, no wind
	2227	Freight train goes by

25-hour Ambient Noise Measurement Data Sheet

Project Name:	Grayson Power Plant
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Noise Meter Make and Type:	Bruell & Kjaer Model 2270
Microphone:	Bruel & Kjaer 1/2" Free-field Microphone
Acoustical Calibrator:	Bruel & Kjaer Model
Stantec Technician:	L. Butler / R. Brown

Location and Description of Measurement (Receptor Location):

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Friday, March 24, 2017	Time:	Description/sources of ambient noise:
	0025	Freight train passes by
	0026 - 0038	Shift change
	0115	Freight train passes
	0135	58°F, clear, 1.5 mph wind
	0146	Freight train
	0300	54°F, hazy, 1 mph wind
	0326	Freight train w/horn
	0417	49°F, hazy, 1.5 mph wind
	0528	Passenger train w/horn
	0558	Passenger train w/horn — 51°F, hazy, 0 mph wind
	0637	Passenger train
	0707	Passenger train w/horn
	0708	Passenger train
	0730	Passenger train
	0730	Passenger train w/horn (opposite direction) — 51°F, sunny, 0.5 mph wind
	0736	Passenger train w/horn
	0744	Passenger train
	0748	Passenger train
	0751	Trash truck backup alarm, dumpster dump in alley
	0754	Passenger train
	0813	Passenger train w/horn — 54°F, sunny, 0.5 mph wind
	0814	Siren down San Fernando Rd. (to N)
	0820	Passenger train, sounded horn to S. of recording location.
	0838	Passenger train
	0839	Passenger train w/horn
	0846	Passenger train
	0848	Passenger train w/horn

25-hour Ambient Noise Measurement Data Sheet

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Noise Meter Make and Type:	Bruell & Kjaer Model 2270
Microphone:	Bruel & Kjaer 1/2" Free-field Microphone
Acoustical Calibrator:	Bruel & Kjaer Model
Stantec Technician:	L. Butler / R. Brown / K. Posekany

Location and Description of Measurement (Receptor Location):

Receptor 3 - 25 Hr measurement SE corner of medical center parking lot

Time:	Description/sources of ambient noise:
0859	Passenger train w/ horn
0904	Passenger train w/ horn slowly passing
0911	Passenger train
0917	Car Starts - Shift change
0926	Passenger train; horn blows in distance
0934	Passenger train w/ horn
0937	Passenger train w/ horn.
0941	Airplane passes overhead
0954	Passenger train w/ horn.
0957	Fed Ex truck stops & starts engine in immediate vicinity of meter
0959	Helicopter passes overhead; Passenger train w/ horn. Sunny; 61°F; 1 mph wind.
1008	Passenger train w/ horn.
1035	Passenger train w/ horn
1055	Passenger train w/ horn. Sunny; 69°F; 1 mph wind
1127	Passenger train w/ horn.
1132	Passenger train w/ horn.
1140	Dogs barking in adjacent property's back yard.
1212	Helicopter passes overhead; Dogs continue to bark. Sunny; 71°F; 1 mph wind.
1215	Passenger train w/ horn
1219	Passenger train w/ horn.
1220	Passenger train w/ horn.
1252	Generator for paving company turns on; Pavers begin saw-cutting concrete.
1253	Complete 25 Hour Noise monitoring

15-MIN AMBIENT NOISE MEASUREMENT DATA SHEET

Project Name:	Grayson Power Plant
Project Number:	2057123300
Noise Meter Make and Type:	Bruell & Kjaer Model 2250
Microphone:	Brue & Kjaer 1/2" Free-field Microphone
Acoustical Calibrator:	Brue & Kjaer Model 4231
Date of Measurement:	3/23/17
Stantec Technician:	K. Posekian

Location and Description of Measurement (Receptor Location):

Receptor 4: Fairmont Ave in front of Powerplant gate

Approximate Distance from Receptor:

Time Measurement Began:

12:17

Time Measurement Ended:

1233

Data Stored as Recorded #:

004 R4-day

Leq:	dBA
MaxP:	dBC
MinL:	dBA
MaxL:	dBA
SEL:	dBA
LVN:	dBA

L90:	dBA
L75:	dBA
L50:	dBA
L25:	dBA
L10:	dBA

Description of meteorological conditions (weather, wind, temperature, etc.):

Sunny; 65°F; Breezy

Description/sources of ambient noise:

Traffic; Hum of ancillary machinery from Powerplant, @ 1230 man on bike in conversation on phone rides by.

15-MIN AMBIENT NOISE MEASUREMENT DATA SHEET

Project Name:	Grayson Power Plant
Project Number:	2057123300
Noise Meter Make and Type:	Bruell & Kjaer Model 2250
Microphone:	Bruel & Kjaer 1/2" Free-field Microphone
Acoustical Calibrator:	Bruel & Kjaer Model 4231
Date of Measurement:	3/23/17
Stantec Technician:	K. Posekian

Location and Description of Measurement (Receptor Location):

Receptor 4: Fairmont Ave in front of Powerplant Gate

Approximate Distance from Receptor:

Time Measurement Began:

1930

Time Measurement Ended:

1945

Data Stored as Recorded #:

012 R4-eve

Leq:		dBA
MaxP:		dB
MinL:		dBA
MaxL:		dBA
SEL:		dBA
LVN:		dBA

L90:		dBA
L75:		dBA
L50:		dBA
L25:		dBA
L10:		dBA

Description of meteorological conditions (weather, wind, temperature, etc.):

Dusk; Clear; ~60-65°F; Light Breeze

Description/sources of ambient noise:

Traffic; low Hum from ancillary machinery from Powerplant

15-MIN AMBIENT NOISE MEASUREMENT DATA SHEET

Project Name:	Grayson Power Plant
Project Number:	2057123300
Noise Meter Make and Type:	Bruell & Kjaer Model 2250
Microphone:	Bruel & Kjaer 1/2" Free-field Microphone
Acoustical Calibrator:	Bruel & Kjaer Model 4231
Date of Measurement:	3/23/17
Stantec Technician:	K. Posekan

Location and Description of Measurement (Receptor Location):

Receptor 4: Fairmont Ave in front of Powerplant gate

Approximate Distance from Receptor:

Time Measurement Began:

2310

Time Measurement Ended:

2325

Data Stored as Recorded #:

018 R4_night

Leq:		dBA
MaxP:		dBC
MinL:		dBA
MaxL:		dBA
SEL:		dBA
LVN:		dBA

L90:		dBA
L75:		dBA
L50:		dBA
L25:		dBA
L10:		dBA

Description of meteorological conditions (weather, wind, temperature, etc.):

Night; Clear; ~55°F; No wind

Description/sources of ambient noise:

Traffic; Hum from Ancillary machines in plant, @ 2316 Helicopter passes overhead

15-MIN AMBIENT NOISE MEASUREMENT DATA SHEET

Project Name: Grayson Power Plant
 Project Number: 2057123300
 Noise Meter Make and Type: Bruell & Kjaer Model 2250
 Microphone: Bruel & Kjaer 1/2" Free-field Microphone
 Acoustical Calibrator: Bruel & Kjaer Model 4231
 Date of Measurement: 3/23/17
 Stantec Technician: K Posekany

Location and Description of Measurement (Receptor Location):

Receptor 5: Fairmont Ave.

Approximate Distance from Receptor:

Time Measurement Began: 11:26
 Data Stored as Recorded #: 002 R5-day
 Leq:
 MaxP:
 MinL:
 MaxL:
 SEL:
 LVN:

Time Measurement Ended: 11:42
 L90:
 L75:
 L50:
 L25:
 L10:

Description of meteorological conditions (weather, wind, temperature, etc.):

Sunny; 65°F; Breezy;

Description/sources of ambient noise:

Disney Blowers; Traffic; @ 1129 Train Horn in distance; @ 1131 - 2 girls walking
 by in conversation; @ 1137 - 2 men walking by in conversation

15-MIN AMBIENT NOISE MEASUREMENT DATA SHEET

Project Name:	Grayson Power Plant
Project Number:	2057123300
Noise Meter Make and Type:	Bruell & Kjaer Model 2250
Microphone:	Bruel & Kjaer 1/2" Free-field Microphone
Acoustical Calibrator:	Bruel & Kjaer Model 4231
Date of Measurement:	3/23/17
Stantec Technician:	K. Posekian

Location and Description of Measurement (Receptor Location):

Receptor 5: Fairmont Ave

Approximate Distance from Receptor:

Time Measurement Began:

2019

Time Measurement Ended:

2034

Data Stored as Recorded #:

014 R5-eve

Leq:		dBA
MaxP:		dB
MinL:		dBA
MaxL:		dBA
SEL:		dBA
LVN:		dBA

L90:		dBA
L75:		dBA
L50:		dBA
L25:		dBA
L10:		dBA

Description of meteorological conditions (weather, wind, temperature, etc.):

Bsky; Clear; 60°F; No wind.

Description/sources of ambient noise:

Traffic; Hum from Disney Blowers; Whistles from Soccer field during soccer game. @2020 train horn in distance

15-MIN AMBIENT NOISE MEASUREMENT DATA SHEET

Project Name:	Grayson Power Plant
Project Number:	2057123300
Noise Meter Make and Type:	Bruell & Kjaer Model 2250
Microphone:	Bruel & Kjaer 1/2" Free-field Microphone
Acoustical Calibrator:	Bruel & Kjaer Model 4231
Date of Measurement:	3/23/17 - 3/24/17
Stantec Technician:	K. Posekian

Location and Description of Measurement (Receptor Location):

Receptor 5: Fairmont Ave

Approximate Distance from Receptor:

Time Measurement Began:

2351

Time Measurement Ended:

0006

Data Stored as Recorded #:

020 R5-night

Leq:		dBA
MaxP:		dBC
MinL:		dBA
MaxL:		dBA
SEL:		dBA
LVN:		dBA

L90:		dBA
L75:		dBA
L50:		dBA
L25:		dBA
L10:		dBA

Description of meteorological conditions (weather, wind, temperature, etc.):

Night; Clear; ~55°F; No wind.

Description/sources of ambient noise:

Traffic; Hum from Disney Blowers

15-MIN AMBIENT NOISE MEASUREMENT DATA SHEET

Project Name:	Grayson Power Plant
Project Number:	2057123300
Noise Meter Make and Type:	Bruell & Kjaer Model 2250
Microphone:	Bruel & Kjaer 1/2" Free-field Microphone
Acoustical Calibrator:	Bruel & Kjaer Model 4231
Date of Measurement:	3/23/17
Stantec Technician:	K. Posekian

Location and Description of Measurement (Receptor Location):

Receptor 6: Flower Ave.

Approximate Distance from Receptor:

Time Measurement Began:

1150

Time Measurement Ended:

1205

Data Stored as Recorded #:

003 R6-day

Leq:		dBA
MaxP:		dBC
MinL:		dBA
MaxL:		dBA
SEL:		dBA
LVN:		dBA

L90:		dBA
L75:		dBA
L50:		dBA
L25:		dBA
L10:		dBA

Description of meteorological conditions (weather, wind, temperature, etc.):

Sunny; 65°F; Breezy

Description/sources of ambient noise:

Traffic; Hum of ancillary machinery from Powerplant.

15-MIN AMBIENT NOISE MEASUREMENT DATA SHEET

Project Name:	Grayson Power Plant
Project Number:	2057123300
Noise Meter Make and Type:	Bruell & Kjaer Model 2250
Microphone:	Bruel & Kjaer 1/2" Free-field Microphone
Acoustical Calibrator:	Bruel & Kjaer Model 4231
Date of Measurement:	3/23/17
Stantec Technician:	K. Posekian

Location and Description of Measurement (Receptor Location):

Receptor 6' Flower Ave.

Approximate Distance from Receptor:

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Time Measurement Began:	1955	Time Measurement Ended:	2010		
Data Stored as Recorded #:	013 R6-eve				
Leq:		dBA	L90:		dBA
MaxP:		dBC	L75:		dBA
MinL:		dBA	L50:		dBA
MaxL:		dBA	L25:		dBA
SEL:		dBA	L10:		dBA
LVN:		dBA			

Description of meteorological conditions (weather, wind, temperature, etc.):

Dusk; Clear; ~60-65°F, No wind

Description/sources of ambient noise:

Traffic; Hum of Street Light; Hum from Ancillary machinery from plant.
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15-MIN AMBIENT NOISE MEASUREMENT DATA SHEET

Project Name:	Grayson Power Plant
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Microphone:	Bruel & Kjaer 1/2" Free-field Microphone
Acoustical Calibrator:	Bruel & Kjaer Model 4231
Date of Measurement:	3/23/17
Stantec Technician:	K. Posekany

Location and Description of Measurement (Receptor Location):

Receptor 6 : Flower Ave.

Approximate Distance from Receptor:

Time Measurement Began:

2332

Time Measurement Ended:

2347

Data Stored as Recorded #:

019 R6-night

Leq:		dBA
MaxP:		dBC
MinL:		dBA
MaxL:		dBA
SEL:		dBA
LVN:		dBA

L90:		dBA
L75:		dBA
L50:		dBA
L25:		dBA
L10:		dBA

Description of meteorological conditions (weather, wind, temperature, etc.):

Night, Clear; ~55°F; No Wind.

Description/sources of ambient noise:

Traffic; Loud Hum from Street Light; @2339 People yelling from Car

15-MIN AMBIENT NOISE MEASUREMENT DATA SHEET

Project Name:	Grayson Power Plant
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Noise Meter Make and Type:	Bruell & Kjaer Model 2250
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Acoustical Calibrator:	Bruel & Kjaer Model 4231
Date of Measurement:	3/23/17
Stantec Technician:	K. Rosegian

Location and Description of Measurement (Receptor Location):

Receptor 7: Zoo Drive near John Ferraro Athletic Fields

Approximate Distance from Receptor:

Time Measurement Began:

12:50

Time Measurement Ended:

1305

Data Stored as Recorded #:

005 R7-day

Leq:		dBA
MaxP:		dBC
MinL:		dBA
MaxL:		dBA
SEL:		dBA
LVN:		dBA

L90:		dBA
L75:		dBA
L50:		dBA
L25:		dBA
L10:		dBA

Description of meteorological conditions (weather, wind, temperature, etc.):

Sunny; 65-70°F; Breezy

Description/sources of ambient noise:

Traffic; Birds chirping; Car Doors opening/closing in Park's parking lot;
Hum of ancillary machinery from plant; @ 1300 Bike rider goes by.

15-MIN AMBIENT NOISE MEASUREMENT DATA SHEET

Project Name:	Grayson Power Plant
Project Number:	2057123300
Noise Meter Make and Type:	Bruell & Kjaer Model 2250
Microphone:	Bruel & Kjaer 1/2" Free-field Microphone
Acoustical Calibrator:	Bruel & Kjaer Model 4231
Date of Measurement:	3/23/17
Stantec Technician:	K. Posekian

Location and Description of Measurement (Receptor Location):

Receptor 7: John Ferraro Athletic Fields

Approximate Distance from Receptor:

Time Measurement Began:

1901

Time Measurement Ended:

1916

Data Stored as Recorded #:

011

RT. eve

Leq:		dBA
MaxP:		dBC
MinL:		dBA
MaxL:		dBA
SEL:		dBA
LVN:		dBA

L90:		dBA
L75:		dBA
L50:		dBA
L25:		dBA
L10:		dBA

Description of meteorological conditions (weather, wind, temperature, etc.):

Sunny (sunsetting); 65°F; Light wind

Description/sources of ambient noise:

Traffic; idling cars in immediate vicinity; Opening/closing of doors;
Chirping Birds; Hum of ancillary machinery from plant;

15-MIN AMBIENT NOISE MEASUREMENT DATA SHEET

Project Name:	Grayson Power Plant
Project Number:	2057123300
Noise Meter Make and Type:	Bruell & Kjaer Model 2250
Microphone:	Bruel & Kjaer 1/2" Free-field Microphone
Acoustical Calibrator:	Bruel & Kjaer Model 4231
Date of Measurement:	4/23/17
Stantec Technician:	K. Posekany

Location and Description of Measurement (Receptor Location):

Receptor 7: John Ferraro Athletic Park: Zoo Dr.

Approximate Distance from Receptor:

Time Measurement Began: 2240

Time Measurement Ended: 2255

Data Stored as Recorded #: 017 R7-night

Leq:		dBA	L90:		dBA
MaxP:		dBC	L75:		dBA
MinL:		dBA	L50:		dBA
MaxL:		dBA	L25:		dBA
SEL:		dBA	L10:		dBA
LVN:		dBA			

Description of meteorological conditions (weather, wind, temperature, etc.):

Night; Clear; ~55°F; No wind

Description/sources of ambient noise:

@ 2240: car engine (very loud) starts, @ 2243 Car leaves @ 2249 Car w/ loud music parks next to meter;
Traffic; Starting Cars; Hum of ancillary machinery from plant (water cooling towers)

15-MIN AMBIENT NOISE MEASUREMENT DATA SHEET

Project Name:	Grayson Power Plant
Project Number:	2057123300
Noise Meter Make and Type:	Bruell & Kjaer Model 2250
Microphone:	Bruel & Kjaer 1/2" Free-field Microphone
Acoustical Calibrator:	Bruel & Kjaer Model 4231
Date of Measurement:	03.23.17
Stantec Technician:	S. Roberts

Location and Description of Measurement (Receptor Location):

Cooling towers (50' from corner of unit)

Approximate Distance from Receptor:

within the power plant

Time Measurement Began: 15:01:44

Time Measurement Ended: 15:16:44

Data Stored as Recorded #: 007 cooling towers at 50ft

Leq:	dBA	L90:	dBA
MaxP:	dB	L75:	dBA
MinL:	dBA	L50:	dBA
MaxL:	dBA	L25:	dBA
SEL:	dBA	L10:	dBA
LVN:	dBA		

Description of meteorological conditions (weather, wind, temperature, etc.):

Sunny 71°F Slight breeze

Description/sources of ambient noise:

> water of cooling tower
 > high pitch hum of equipment
 @ 15:10 heli copter flew over head

15-MIN AMBIENT NOISE MEASUREMENT DATA SHEET

Project Name:	Grayson Power Plant
Project Number:	2057123300
Noise Meter Make and Type:	Bruell & Kjaer Model 2250
Microphone:	Bruel & Kjaer 1/2" Free-field Microphone
Acoustical Calibrator:	Bruel & Kjaer Model 4231
Date of Measurement:	03.23.17
Stantec Technician:	S. Roberts

Location and Description of Measurement (Receptor Location):

middle of cooling tower (3) of (5) (50' from tower)

Approximate Distance from Receptor:

within the power plant

Time Measurement Began: 15:20:52

Time Measurement Ended: 15:35:52

Data Stored as Recorded #: 008 Cooling tower 3@50ft2

Leq:		dBA	L90:		dBA
MaxP:		dB	L75:		dBA
MinL:		dBA	L50:		dBA
MaxL:		dBA	L25:		dBA
SEL:		dBA	L10:		dBA
LVN:		dBA			

Description of meteorological conditions (weather, wind, temperature, etc.):

Sunny, 71F breezy windy

Description/sources of ambient noise:

water from cooling tower

15-MIN AMBIENT NOISE MEASUREMENT DATA SHEET

Project Name:	Grayson Power Plant
Project Number:	2057123300
Noise Meter Make and Type:	Bruell & Kjaer Model 2250
Microphone:	Bruel & Kjaer 1/2" Free-field Microphone
Acoustical Calibrator:	Bruel & Kjaer Model 4231
Date of Measurement:	03.23.17
Stantec Technician:	S. Roberts

Location and Description of Measurement (Receptor Location):

oil pump	50' from center
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Approximate Distance from Receptor:

within the Power Plant

Time Measurement Began:

15:41:33

Time Measurement Ended:

15:56:33

Data Stored as Recorded #:

009 oil-pump

Leq:		dBA	L90:		dBA
MaxP:		dBC	L75:		dBA
MinL:		dBA	L50:		dBA
MaxL:		dBA	L25:		dBA
SEL:		dBA	L10:		dBA
LVN:		dBA			

Description of meteorological conditions (weather, wind, temperature, etc.):

Sunny 70°F breezy (SSW 6mph)

Description/sources of ambient noise:

Squeaker belt on equipment; rattling of walk ways and fans @ 1556 compressor kicked on; generator under canopy;

15-MIN AMBIENT NOISE MEASUREMENT DATA SHEET

Project Name:	Grayson Power Plant
Project Number:	2057123300
Noise Meter Make and Type:	Bruell & Kjaer Model 2250
Microphone:	Bruel & Kjaer 1/2" Free-field Microphone
Acoustical Calibrator:	Bruel & Kjaer Model 4231
Date of Measurement:	03.23.16
Stantec Technician:	S. Roberts

Location and Description of Measurement (Receptor Location):

Turbine deck 1
(T. Deck 1-5 in operation)

Approximate Distance from Receptor:

50' within power plant

Time Measurement Began: 16:03:52

Time Measurement Ended: 16:18:52

Data Stored as Recorded #: 010 turbine-deck-1-e-soft

Leq:		dBA	L90:		dBA
MaxP:		dB	L75:		dBA
MinL:		dBA	L50:		dBA
MaxL:		dBA	L25:		dBA
SEL:		dBA	L10:		dBA
LVN:		dBA			

Description of meteorological conditions (weather, wind, temperature, etc.):

Sunny, 70°F breezy ssu e 6 mph

Description/sources of ambient noise:

> train @ 16:05 t. deck 1-5 in operation during recording
 > truck pass by @ 16:09 and 16:10
 > train @ 16:12